

March 16, 2010 10:25:58 AM

Item ID:

D4086-232

Accept



Setup Start



Revision ID:

Item Name:

Placard, Max Load

Start Date:

Required Date: 3/23/10

3/16/10

Start Qty: 10.00

Req'd Qty: 10.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

CX

Date: 10/3/14 Tooling:

Date:

Run

CL 10/3/16

Start

Stop



QÇ:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

Operation Description

Revision Nbr

Set Up/ **Run Hours** Draw Number Draw Rev.

Plan Code

Accept Reject Qty Qty

Reject Number Insp. Stamp

Draw Nbr

D4086 Α

100

Purchasing

Purchasing

PURCHASING

Issue P/O: Fabricate as per Dwg D4086 Possible Supplier: Studio Lettrage Material release note is required

110

Packaging Packaging

Receive & Inspect for Damage & Mat'l Certs

Memo

Ensure Material Release Note is attached

0.00

0.00

0.00

0.00

120

Memo

QC6- Inspect dimensions to drawing

Quality Control

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHANG	SES			·- <u>-</u> ··-		
DATE	STEP	PR	OCEDURE CHA	NGE	В	y	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		•								
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Y	es N	lo DQ	A :	_ Date: _	
	Res	solution:	Dispositio	n:	QA: N/	C Clo	sed:		Date:	
NCR:			WORK ORD	ER NON-CONFORM	ANCE (N	ICR)				
DATE	STEP	Description of NC Corrective Action			ection B Ve			erification App		Approval
	SILF	Section A	Initial Chief Eng	Action Description Chief Eng		gn & Date	Section C		Chief Eng	QC Inspector
<u></u>										
	1									

NOTE: Date & initial all entries

Page 2

March 16, 2010 10:25:58 AM

Item ID:

D4086-232

QC:

Accept



Setup Start

Stop



Revision ID:

Item Name:

Placard, Max Load

Start Date: 3/16/10 Required Date: 3/23/10 **Start Qty: 10.00** Req'd Qty: 10.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: ___

Date:

Date:

Tooling:

Date:

Date:

Draw

Rev.

Start Run

Stop



Sequence ID/

Work Center ID

130

Packaging

Operation Description

Identify as per dwg & Stock Location: // >

Set Up/ **Run Hours**

SPC (Y/N):

0.00

0.00

Draw Number Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

Packaging

QC21- Final Inspection - Work Order Release

0.00

0.00

140

QC Quality Control

Memo

Memo

10/03/24 AS

Dart Aerospace Ltd

W/O:			. V	VORK ORDER CHANGE	ES				
DATE	STEP	PRO	OCEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	:					-			
									
Part No		PAR #:	Fault Ca	tegory:	NCR: Yes	No DQA	\ :	_ Date:	
_		esolution:							
NCR:		1	WORK OR	DER NON-CONFORMA	NCE (NCI	R)			
DATE	STEP	Description of NC	In this at	Corrective Action Section		Verific		Approval	Approval
······		Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		on C	Chief Eng	QC Inspector
	:								
									:

NOTE: Date & initial all entries

Picklist Print

March 16, 2010 10:25:57 AM

Work Order ID: 56980

D4086-232 Parent Item:

Parent Item Name: Placard, Max Load

IPP Rev:A new issue DD 10.03.16 verified by:EC Comments:

Purchased

Replacement Mfg/ Bin Primary Item Location Item ID Purch

No

Last Route Seq ID Location 110

Measure Each

Unit of

Qty on Hand 0.0000

Qty To Pick Issued 10.0000

Start Date: 3/16/10

Start Qty: 10.00

Remaining

Issued

Status

Page 1

D4086-232P

Placard, Max Load

Component Item ID/

Item Name

Qty

Required Date: 3/23/10

Required Qty: 10.00

Date

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	egory:	_ NCR:	Yes N	lo DQ /	A :	_ Date: _	
	Re	esolution:							Date:	
NCR:		·	WORK ORD	ER NON-CONFORM	ANCE (NCR)				
DATE	STEP	Description of NC	Initial	ection B		Verification		Approval	Approval	
		Section A	Chief Eng	Action Description Chief Eng		Date	Secti	on C	Chief Eng	QC Inspector
										}
										,

NOTE: Date & initial all entries

MAXIMUM DISTRIBUTED LOAD XXX LB / YYY KG TOTAL 32 lbs/ft2 (156 Kg/m2) 1.80 REFER TO FMS-D350-607 OR FMS-D355-607 FOR OTHER LOADING LIMITATIONS P/N D4086-XXX 0.08 0.09 R0.20 TYP

B D4086-XXX PLACARD, MAX LOAD (XXX = ALLOWABLE WEIGHT)

	PART NUMBER	LOAD	
	D4086-210	210 lb/ 95 kg	
	D4086-220	220 lb / 100 kg	
	D4086-232	232 lb/ 105 kg	_
~	D4086-243	243 lb/ 110 kg	

SHOP COPY **RETURN TO ENGINEERING UNCONTROLLED COPY** SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. 56980 CZ10/3/16

			_					
A	NEW IS	SUE	JPH	10.03.08				
REV.			DESCRIPTION	BY	DATE			
DESIG	٧	JĦH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA					
DRAW	7	J₽H						
CHECKED			DRAWING NO.		REV. A			
MFG. APPR.			D4086		SHEET 1 OF 1			
APPRO	VED	M.	TITLE		SCALE			
DE APF	PR.	-#-	PLACARD, MAX LOAD		NTS			
DATE	10.0	3.08	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS MINITE AND COMPRESSION. AND IS SEPTED OF THE SOFTEM CONCINENT THIS IS NOT TO BE USED FOR ANY ABRORDED OF COMPLET OF CONCINENT TO TO ANY OTHER PETISON WITHOUT					

NOTES:
1) MATERIAL: RED LETTERS WITH WHITE BACKGROUND AND ADHESIVE BACK.
MANUFACTURED FROM 3M, 7 MIL MASKING FILM #8522CP OR
AVERY IPM #2031 2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: N/A

D

С

8) PART NUMBER = D4086-MAX DISTRIBUTED WEIGHT IN POUNDS (lbs) OF THE BASKET.
EXAMPLE: D4086-210 IS A BASKET WITH MAX DISTRIBUTED WEIGHT OF 210 POUNDS (lbs).

5

8



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO11514

Purchase Order Date 3/16/10 PO Print Date 3/23/10

Page Number 1 of 2

Order From:

VC-STU001

STUDIO DE LETTRAGE 2001 210 MAIN WEST HAWKESBURY, ON K6A 2H6 CA

.....

Buyer

Chantal Lavoie

RECIBED

.

613 632 5449

Requisition Nbr

Vendor Phone Vendor Fax

Vendor Account Nbr

Contact Name

613 632 9491

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency FOB

CAD

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
t	D4086-210P	Placard, Max Load	3/23/10	10.00	Yours ppd	\$7.5000	\$75.00
			Yes	Each			
		Special Inst:	B46978 MATERIAL WHITE BAC ADHESIVE MANUFAC	TURE FROM 3M, 7M ILM #8522CP OR			
2	D4086-220P	Placard, Max Load	3/23/10	10.00	Yours ppd	\$7.5000	\$75.00
			Yes	Each			
		Special Inst:	AS ABOVE B56979				
3	D4086-232P	Placard, Max Load	3/23/10	10.00	Yours ppd	\$7.5000	\$75.00
			Yes	Each)	
		Special Inst:	AS ABOVE B56980)	



210 MAIN W., HAWKESBURY, ONT. K6A 2H6

Tel.: 613 632-2001 Fax: 613 632-9491

www.studiolettrage.com

INVOICE / FACTURE

No.:

13561

DATE:

03/23/2010

PAGE

1 of 1

Re: Quote No. 8461

VENDU À: SOLD TO:

K6A 1K7

LIVRÉ À: SHIPPED TO:

Dart Aerospace Ltd 1270 Aberdeen Hawkesbury, Ontario Dart Aerospace Ltd

Hawkesbury, Ontario

ITEM ARTICLE	QTY QYÉ	UNIT UNITÉ	DESCRIPTION	GST TPS	PST TVP	UNIT PRICE PRIX UNITÉ	AMOUNT MONTAN
	15)	D4085 set up D4086 210P D4086 220P D4086 232P D4086 243P Printing	EEEEG		3.3333 5.0000 5.0000 5.0000 5.0000 125.0000	50.00 50.00 50.00 50.00 50.00 125.00
			E - GST @ 5% G - GST @ 5%; PST @ 8% GST PST Exempt: #6122-5207				18.75
			Sidus/zy				
culdio de Lel	trage GST: #8	69034678RP001				TOTAL	

Sold By:

Product Bulletin 8522

3M

Release F, Effective January 2003 Black bar in margin indicates a change

Scotchcal [™] Opaque Imaging Media 8522

Description

This media is specially formulated to dry quickly after printing. Production of outdoor weatherable and long-term indoor durable graphics is now easier than ever. Its changeable adhesive allows easy removal for up to one year.

Advantages

- Optimized for use with selected Epson Stylus Proprinters and Epson Archival inks.
- Optimized for use with selected HP DesignJet Printers and HP DesignJet Ink System UV or HP83UV Color Ink System
- For making opaque, laminated graphics that are outdoor weatherable and long-term indoor durable
- Media:
 - For opaque (reflective) graphics
 - Changeable, easy to remove from warranted substrates up to 1 year later
 - Dries quickly after printing so the overlaminate can be applied almost immediately
 - Low slippage paper liner for superior tiling
- Overlaminates:
 - Provide additional UV (ultraviolet) and physical protection for making weatherable finished graphics
 - Available in luster and matte gloss
 - Adhesive allows for heat-assisted or cold-temperature lamination

Applications and Uses

3M Scotchcal Changeable Opaque Imaging Media 8522 is intended only for ink jet printing and for use with the listed Compatible Products and Equipment and the following applications. Any other application is NOT warranted by 3M or covered by the worldwide 3M MCS Warranty unless 3M gives its prior written approval for the application.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
 - Graphics for vans, personal vehicles, trucks and buses
 - Novelty posters
 - Retail and point-of-purchase displays
 - Information graphics such as maps and directories
 - Entertainment promotions in museums, zoos, parks, theatres, sports venues
 - Education and presentation graphics

- Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications

Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.

Note: Standard ink jet technology is water based. Waterbased chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication. Shelf Life and Storage sections in this bulletin. Staying in the middle of these ranges always provides optimum performance.

Compatible Products and Equipment

Thermal Ink Jet Printing Systems

- Epson Stylus Pro 9500, Stylus Pro 10000 printer
 - Epson Archival Inks
- Epson Stylus Pro 10600 printer
 - Epson Archival Inks
- HP DesignJet Printers 2000 and 3000 series
 - HP DesignJet Ink System UV (pigment-based ink)
- HP DesignJet Printers 5000 series
 - HP83UV Color Ink System

Overlaminates (required)

- 3M * Luster Overlaminate 8519 (semi-gloss)
- 3M Matte Overlaminate 8520

Note: For the full product names of the 3M products listed on this page, please see page 1.

Warranted Substrates

Media 8522 is warranted for use on the following rigid substrates.

Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, he sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.

- Alodine (anodized aluminum)
- Automotive panels (automotive painted steel)
- Fruehauf (painted aluminum)
- FRP (fiberglass reinforced plywood)
- Imron § (polyurethane-painted metal panel)
- Acrylic
- Sintra " board

Test and Approve Non-warranted Substrates Before Use

Media 8522 is not warranted for any substrate other than those listed above. If you want to use it for other substrates, 3M recommends that you test and approve the media for both adhesion and removal characteristics.

Characteristics

Characteristic	Description
Media	7 mil, white, opaque graphic film
Liner	Low-slippage, lay flat paper
Adhesive	Changeable, pressure sensitive
Thickness (media and adhesive)	7.5 to 8 mil (nominal)
Application substrates	See Warranted Substrates, above
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations)
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)
Roll sizes	36" x 45 feet (914 mm x 13.5 m) 54" x 45 feet (1372 mm x 13.5 m)

How to Become a 3M Ink Jet **Registered Fabricator**

Only 3M Thermal Ink Jet Registered Fabricators are eligible to offer 3M MCS warranted graphics. In order to become certified, a fabricator must complete the requirements as specified in the 3M Ink Jet Graphics Registered Fabricator Reference Manual located on the 3M website at www. scotchprint.com

Effective Performance Life

To obtain the warranty given below, the graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3. Also see the section, Removability.

Warranted Durability

Media 8522	Epson Pr	inters	HP Printers			
with Overlaminate 8519 or 8520	Outdoor	Indoor	Outdoor	Indoor		
Applied to Warranted Substrates	2 years	5 years	3 years	5 years		

Removability

Imaging media 8522 is removable from warranted substrates for 1 year without the aid of chemical strippers or accessories. Refer to Instruction Bulletin 4.23 for additional information.

Fabrication

Graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3.

See Instruction Bulletin 4.23 for detailed fabrication, printing and mounting information.

Graphic Construction Options

Opaque (Reflective) Graphics

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

Viewer/Light Source Overlaminate 8519, 8520 Adhesive on bottom Imaging Media 8522 Image on top; adhesive on bottom Opaque Substrate

Note: For the full product names of the 3M products listed on this page, please see page 1.

Shelf Life and Storage

- 3M * Scotchcal * Changeable Opaque Imaging Media 8522 has a shelf life of one year.
- Storage conditions (new and partially used rolls). For optimum performance, use the middle of these ranges:
 - Original packaging, including plastic wrap
 - Relative humidity of 20% to 80%
 - Temperature of 33° to 104°F (0° to 40°C)
 - Away from direct sunlight
- Do not stack unprotected rolls or lay sharp or heavy objects on them.

Health and Safety

Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit as at http://www.3M.com/msds.
- By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Warranty and Limited Remedies

3M ** MCS ** Warranty for Graphics Produced on HP DesignJet Printers and Epson Stylus Pro Printers

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: We warrant graphics produced by a 3M Ink Jet Registered Fabricator made with imaging media 8522, printed on an approved HP thermal ink jet printer according to HP's recommendations or Epson Stylus Pro printer according to Epson's recommendations. overlaminated with 8519 or 8520, and applied to a Warranted Substrate according to 3M's recommendations. These

3M Canada

PO. Box 5757

London, Ontario

Canada NoA 4T1

1-800-265-1840

Fax 519-452-6245

graphics are covered against failure caused by ultraviolet light, temperature extremes, pollution, and other elements.

If a graphic fails to perform in accordance with 3M product specifications within this time frame, 3M will replace the materials at no charge. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor charges.

3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Faxon-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768

International: 1-651-732-6506	Bulletin No.	FOD No.		
Subject				
Product Bulletins	8519/8520	4524		
3M ¹¹ Scotchcal ¹¹ Overlaminate 8519 and 8520				
Instruction Bulletins	T . a .	6523		
Making thermal ink jet graphics	4.23			
Application, substrate selection, preparation and substrate-specific application techniques	5.1	7001		
Warranties		9503		
Worldwide 3M MCS Warranty Pack (includes all Commercial Graphics MCS Wo	et urranties)	9504		
Worldwide 3M * MCS * Warranty Overview-Folder				

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Builetin Change Summary

The Epson Stylus Pro Printers 9500, 10000 10600, and Epson Archival Inks have been added to this bulletin. Additional changes resulting from this addition are marked with black bars in the margin.

Commercial Graphics Division

3M Center, Building 220-6W-06 PO Box 33220 St. Paul, MN 55133-3220 USA General Info 1-800-374-677

Technical Info. 1-800-328-3008 Fax 1-651-736-4233

Fax on-Demand, 1-800-364-0768 US/Canada or 1-651-732-6506 International Eax-on-Demand document 4506 www.scotchprint.com

3M México, S.A. de C.V.

Av. Santa Fe No. 55 Col. Santa Fe, Del. Alvaro Obregón México, D.F. 01210 52-55-52-7()-()4-(X) Fax 52-55-52-70-22-77

3M Puerto Rico, Inc.

Puerto Rico Industrial Park P.O. Box 100 Carolina, PR 00986-0100 787-620-3000 Fax 787-750-3035

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